

## ABSTRACT

An apparatus and method for applying pulsed electromagnetic therapy to humans and animals. A straight wire element is employed to generate the magnetic field. A power and timer circuit supplies current pulses that approximate square pulses in form, so that the straight wire element generates magnetic pulses having rapid rise and fall times. Peak field strength is approximately 2 gauss at a 1 cm distance from the straight wire element, and the duration of peak field strength is approximately 200 nanoseconds. The pulses are repeated at a frequency of about 70 Hz. The straight wire element and circuit may be housed in a hand-held probe, with an LED illuminating the skin area to provide a visual indication of effective range, or a plurality of the straight wire elements and associated circuits may be embedded in a conformable pad that is placed over the affected area of the body.